Atlanta 1996
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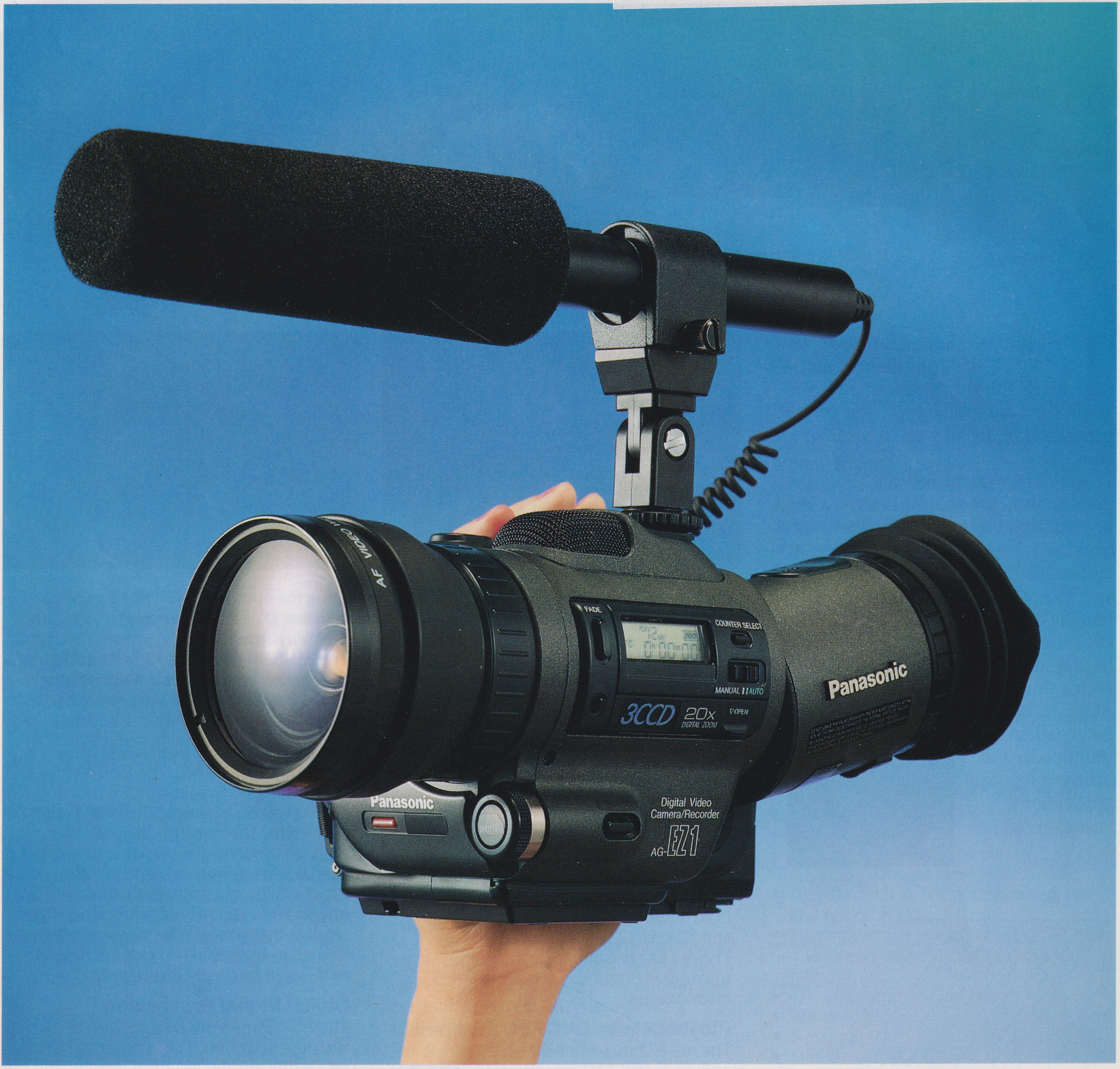
Panasonic

Official Host Broadcast Equipment and
Systems Supplier of the Atlanta Olympic Games

AG-EZ1

3CCD DV Camera/Recorder (PAL)

LEMAC
Film & Video Equipment
SALES*SERVICE*RENTALS
Sydney 02 9438 4488
Melbourne 03 9429 8588
lemac@lemac.com.au


AF VIDEO
FADE
COUNTER SELECT
MANUAL AUTO
3CCD 20x DIGITAL ZOOM
OPEN
Panasonic
Panasonic
Digital Video Camera/Recorder
AG-EZ1

Mini DV Digital Video Cassette

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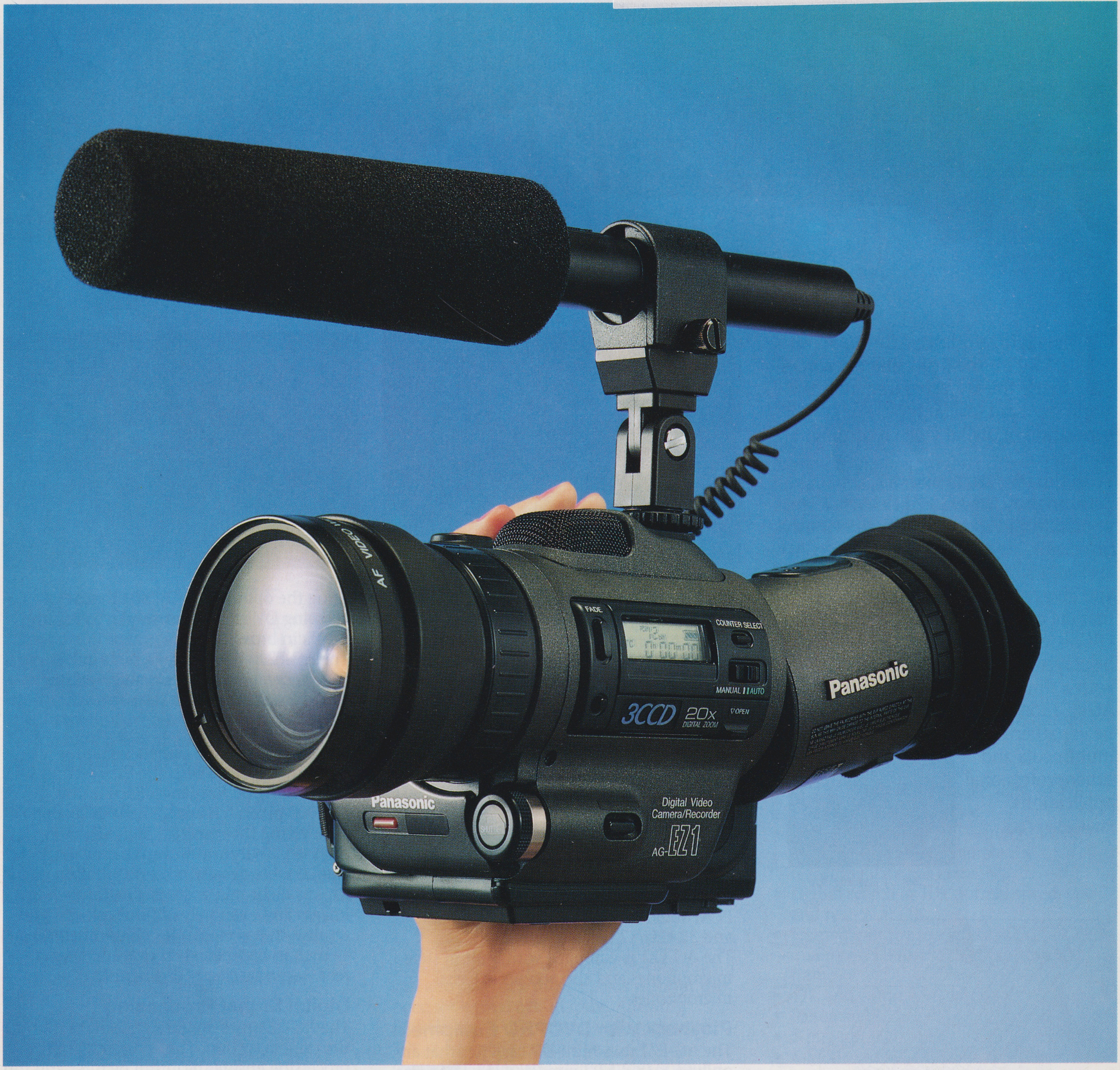
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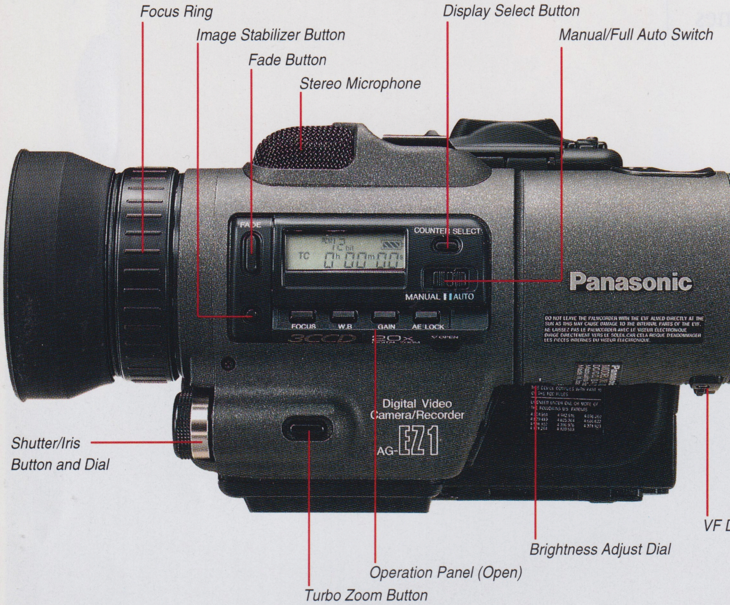
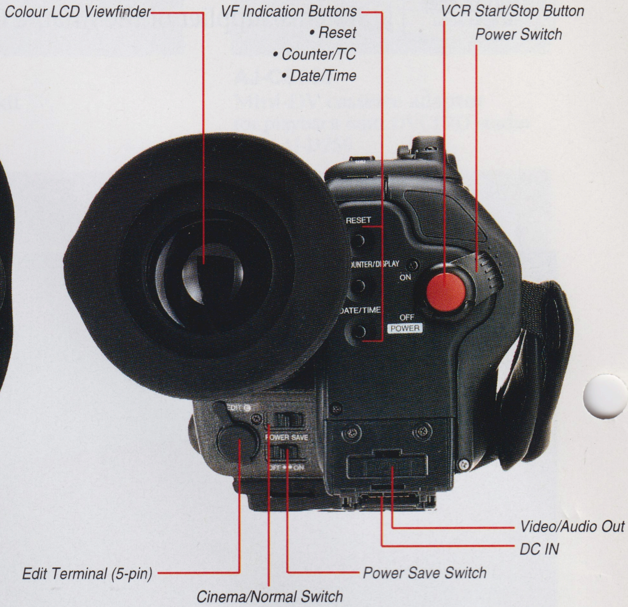
FADE
COUNTER SELECT
MANUAL AUTO
3CCD 20x DIGITAL ZOOM
OPEN
Panasonic
Panasonic
Digital Video Camera/Recorder
AG-EZ1

Mini DV Digital Video Cassette

DV-Format Camera/Recorder Brings High Quality, Mobility to News Gathering

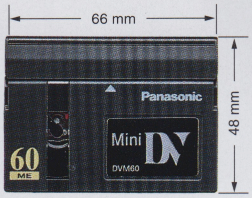

Focus Ring
Image Stabilizer Button
Fade Button
Stereo Microphone
Display Select Button
Manual/Full Auto Switch
Panasonic
Digital Video Camera/Recorder
AG-EZ1
Shutter/Iris Button and Dial
VF Display Adjust Dial
Brightness Adjust Dial
Operation Panel (Open)
Turbo Zoom Button


Colour LCD Viewfinder
VF Indication Buttons
• Reset
• Counter/TC
• Date/Time
VCR Start/Stop Button
Power Switch
Video/Audio Out
DC IN
Power Save Switch
Edit Terminal (5-pin)
Cinema/Normal Switch

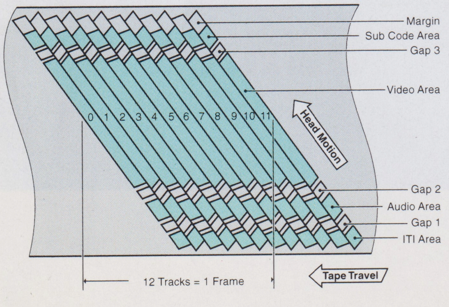
The highly portable AG-EZ1, about 1.1 kg*, is the first camera/recorder to use the DV video format — the world standard format for the next generation of digital video recording equipment.

With the DV format and 3CCD performance, the AG-EZ1 delivers a level of picture and sound quality, previously unimaginable in a unit this compact. It also adds sophisticated auto functions and gives operators the flexibility of manual control when desired. The Mini-DV cassette tapes used by the AG-EZ1 can be played back by DVCPRO studio VCRs with a simple adaptor, making the AG-EZ1 ideal for news gathering, multimedia and other professional applications.

*Without battery pack.

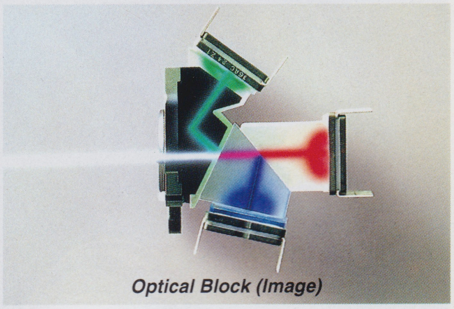

66 mm
48 mm
Panasonic
Mini DV
DVM60
60 ME

MiniDV Cassette Size


Margin
Sub Code Area
Gap 3
Video Area
0
1
2
3
4
5
6
7
8
9
10
11
Head Motion
Gap 2
Audio Area
Gap 1
ITI Area
12 Tracks = 1 Frame
Tape Travel

DV Format Track Pattern

Playback with Cassette Adaptor



Optical Block (Image)

Superb Pictures, DV Digital Recording Format

The DV Format 8-bit digital compression recording system delivers superior picture quality, with 500-line horizontal resolution and an S/N ratio of 54 dB. The wide colour frequency of 3 MHz reproduces even subtle colour details.

The DV Format is also equipped with an error correction function that eliminates dropout and assures high recording reliability.

4 Channel PCM Sound Recording

The DV Format 16-bit digital sound system rivals the quality of CDs. Select between PCM audio of 48 kHz/16 bits (2 channels) and 32 kHz/12 bits (4 channels).

The AG-EZ1 is equipped with built-in stereo microphones and also accepts external microphones.

Playback with DVCPRO Equipment

The AG-EZ1 uses Mini-DV cassettes that are only 66 x 48 x 12.2 mm (W x H x D) in size, yet offer up to 60 minutes (AY-DVM60EC) of high-quality digital video and digital audio recording. Mini-DV cassettes can be played back in DVCPRO Studio VTR, AJ-D750 by using the optional AJ-CS750 adaptor*, allowing DV cassette use as playback only media in broadcasts.

The AG-EZ1 also features a built-in EBU time code generator for precise studio editing.

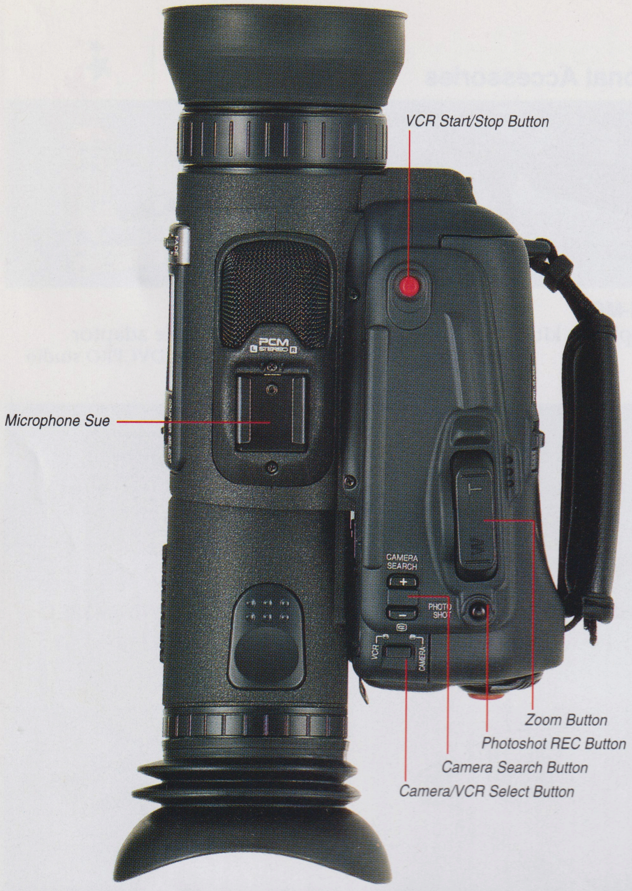
* The adaptor allows playback but not recording.

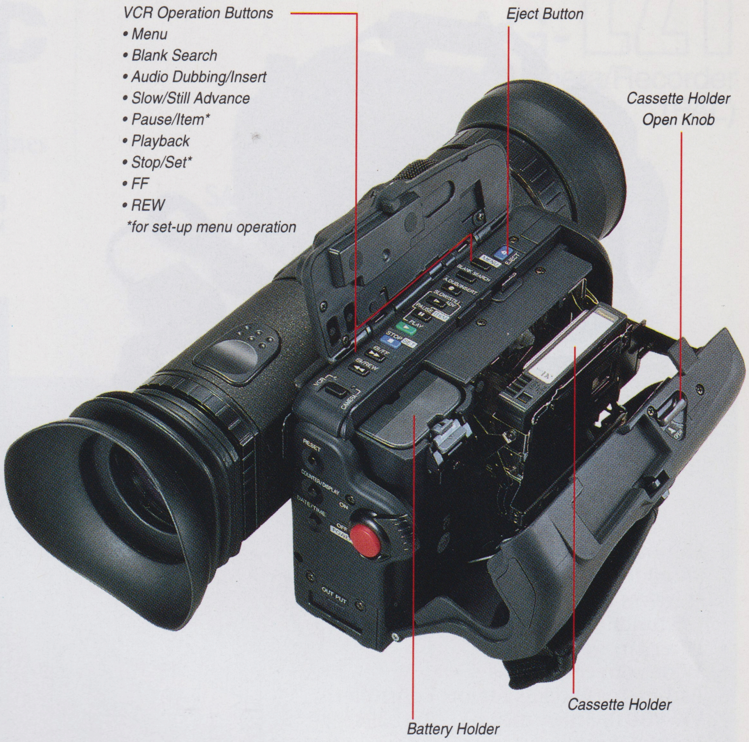
3CCD Camera

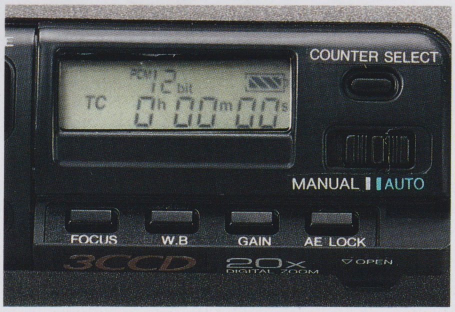
The AG-EZ1's 3CCD camera section is perfectly balanced with the VCR section's outstanding performance. Each of the 320,000 pixels has a large light-collecting area, giving the camera a high S/N ratio, high sensitivity and wide dynamic range. Also, double-density pixel distribution and a gapless dichronic prism ensure razor-sharp images and extremely faithful colours. The result is that even subtle colour differences — such as between vivid reds and deeper reds — can be clearly distinguished.

Digital Signal Processing

The AG-EZ1 uses digital signals right from the camera section. The accurate signal processing ensures beautiful pictures and top reliability, while the digital circuitry incorporates such professional-level features as 3-dimensional noise reduction, gamma correction and knee correction.


VCR Start/Stop Button
Microphone Sue
Zoom Button
Photoshot REC Button
Camera Search Button
Camera/VCR Select Button


VCR Operation Buttons
• Menu
• Blank Search
• Audio Dubbing/Insert
• Slow/Still Advance
• Pause/Item*
• Playback
• Stop/Set*
• FF
• REW
*for set-up menu operation
Eject Button
Cassette Holder Open Knob
Cassette Holder
Battery Holder


COUNTER SELECT
TC
MANUAL AUTO
FOCUS
W.B
GAIN
AE LOCK
3CCD
20x DIGITAL ZOOM
OPEN

Large-Diameter Colour EVF

The AG-EZ1's viewfinder lets the operator shoot comfortably from a variety of angles. Equipped with a large (39-mm-diameter), professional-style eye coupler, the viewfinder moves 120 degrees vertically for good visibility even with the eye away from it. The high resolution of the 0.7-inch, 166,000-pixel colour LCD helps assure easy viewing.

20x Digital Zoom with Digital Image Stabilizer

The AG-EZ1 is equipped with both a high-resolution 10x optical zoom and a powerful 20x digital zoom. The quick Turbo-Zoom goes from wide-angle to full zoom in just about 1.8 seconds, allowing quick framing while in REC Pause. Digital Image Stabilizer corrects jitter to assure clear, shake-free shots.

*Use of the Digital Zoom and Digital Image Stabilizer slightly lowers the overall system resolution, but the 3CCD, 1/2-pitch shifting and DV format still deliver image quality on par with typical S-VHS equipment.

Manual Focus and Manual Iris

The AG-EZ1's manual focus uses the ring system commonly found in professional equipment. The AG-EZ1 also has manual iris with a 16-step dial, and an AE lock mechanism that lets the operator shoot at a selected iris setting without being affected by changes in brightness.

Manual Gain-Up

The AG-EZ1 has both auto gain and a 5-step (0, +3, +6, +9 and +12 dB) manual gain-up function. Setting the gain independently from the iris level lets the operator shoot a subject with enhanced lighting or emphasize darkness in the image.

High Quality Playback

Not only will the AG-EZ1 capture and record component digital video and 16-bit audio, it can also playback these signals without the need for a playback adaptor. Allowing FF/REW up to 60x, search with picture to 10x, a 5 pin edit control jack, Y/C, composite video and stereo audio output and IR remote control as standard features — the AG-EZ1 is a compact machine for recording and playing back excellent video and audio.

Professional Specifications

The AG-EZ1 is equipped with a high-precision, minimal-distortion wide conversion lens that's designed to meet applications in the broadcasting and production industries. Not commonly found on commercial-use cameras, this professional-level lens allows shooting at exceptionally wide angles.
A high-performance microphone — the SHAN-MC1 — is also available as an option for the AG-EZ1. Superb directional characteristic make the SHAN-MC1 ideal for interviews, and it can also be used as a hand-held microphone.

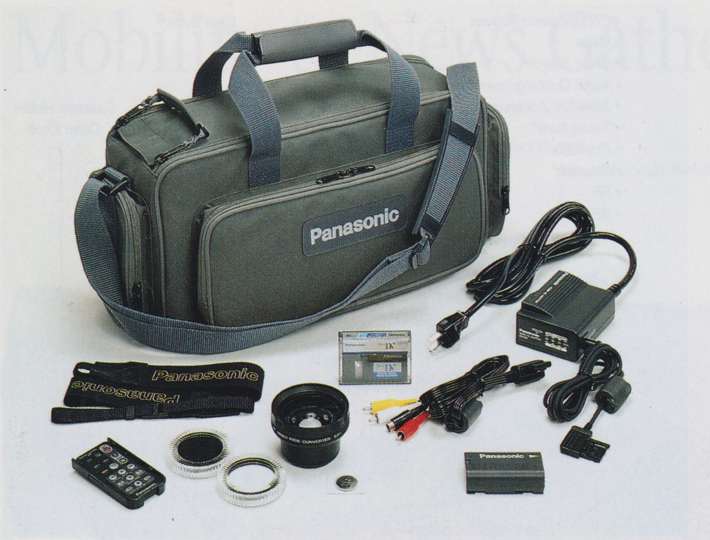
Digital Still Shot

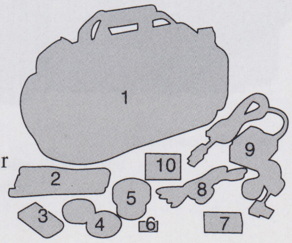
One touch of the Photo Shot button records a high-quality still image and about 7 seconds of sound. One 60-minute tape holds about 500 stills.

Additional Features

- 14-step electronic shutter, with speeds from 1/50 to 1/8,000 sec
- Automatic high-speed search of blank sections and sections where the recording date has changed
- Digital search at 10x normal speed; cue and review at 60x
- Frame-by-frame recording of high-quality still images, at 1/25-second per frame
- Y/C and composite outputs
- Stereo audio output
- 5-pin edit jack
- 4-Mode white balance: Auto, preset Indoor and Outdoor setting, Manual setting
- Auto black balance
- 49 mm filter standard

Standard Accessories



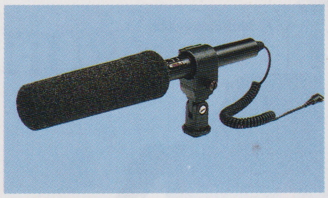


1. Soft bag
2. Shoulder strap
3. Wireless remote controller (25 function)/holder
4. Filter kit
5. Wide conversion lens
6. Battery for wireless remote controller
7. **VW-VBD1E** Battery pack x 2 (7.2V/1.25A)
8. Multi AV cable
9. **VW-AD1** Battery charger/AC adaptor and DC Input cable (DC8.4V/11W)
10. **AY-DVMCLC** Cleaning tape

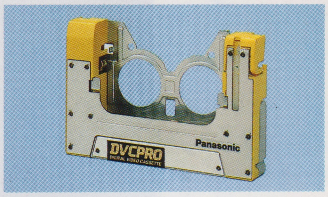
Other Standard Accessories

- Button type battery for auto date function
- Earphone jack core
- Lens Cleaner
- 21-pin Adaptor

Optional Accessories



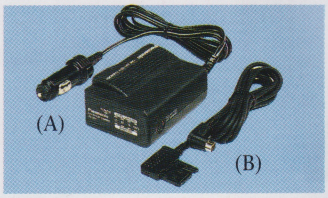
SHAN-MC1
Microphone kit



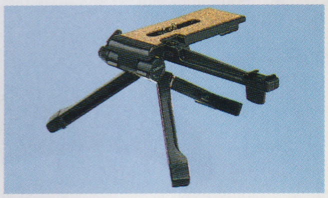
AJ-CS750
Mini-DV cassette adaptor
for playback with DVCPRO studio VTR, AJ-D750

VW-VBD2E
Battery pack (7.2V/2.5A)

AY-DVM60EC/AY-DVM30EC
Mini-DV cassette tape



VW-KBD1E
(A) Car Battery Charger/AC Adaptor (DC8.4V/1.5A)
(B) DC Cable



SHL-TP1
Mini Tripod

Specifications

Digital Video Camera/Recorder

Power Source:	Battery Pack: 7.2 V AC Adaptor: 8.4 V
Power Consumption:	7.5 W
Recording Format:	Digital Video SD Format
Tape Format:	Mini DV
Recording/Playback Time:	60 min. with AY-DVM60EC
VIDEO	
Recording Format:	Digital Component
Television Format:	CCIR: 625 lines, 50 fields PAL colour signal
Video Output:	1.0 Vp-p 75Ω terminated
AUDIO	
Recording Format:	Digital PCM Stereo: 16 bit (48 KHz/2ch), 12 bit (32 KHz/4ch)
Audio Output:	
Phono:	-10dBv (47kΩ loaded)/less than 1kΩ
Phones (M3):	-24 dBv (32Ω loaded)/120Ω

Audio Input:	Mic In (M3): -70 dBv, 4.7 kΩ or more unbalanced
Image Sensor:	1/3" CCD Image Sensor x 3 (RGB)
Lens:	10:1 variable speed power zoom lens F1.6 Focal length: 6 to 60 mm Filter Diameter: 49 mm
Viewfinder:	0.7" Colour LCD viewfinder
Standard Illumination:	1400 lux
Minimum Required Illumination:	4 lux
Operating Temperature:	0 °C to 40 °C
Operating Humidity:	10 % to 80 %
Weight:	Approx. 1.1 kg (without battery pack)
Dimensions (W x H x D):	144 x 121 x 267 mm

AC Adaptor

Power Source:	AC 100~240V, 50 — 60 Hz
Power Consumption:	20 W
DC Output:	DC 8.4 V, 11W (Movie Camera Operation) DC 8.4 V, 1.2 A (Battery Pack Charging)
Weight:	Approx. 170 g (without Battery Pack)
Dimensions (W x H x D):	72 x 43 x 98 mm

*The DV format is a unified standard adopted by more than 56 companies around the world, including Matsushita Electric, Toshiba, Sharp, Sanyo Electric, Philips, Hitachi, Sony, JVC, Mitsubishi Electric and Thompson.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.
This product may be subject to export regulations.

Panasonic

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Bahrain	Tel. 973-252292
Belgium	Tel. 32-2-481-0481
Bolivia	Tel. 59-133-40148
Brazil	Tel. 55-12-331-0492
Canada	Tel. 1-905-238-2340
Chile	Tel. 56-255-55530
China	Tel. 86-1-5050601/8
Colombia	Tel. 57-1-312-7432
Czech Republic	Tel. 42-2-6121-2727
Denmark	Tel. 45-43-200-800
Ecuador	Tel. 507-2-92955
Egypt	Tel. 20-2-777544
Finland	Tel. 358-0-521-5253
France	Tel. 33-149464300
Germany	Tel. 49-611-235-404
Greece	Tel. 30-1-9248300
Hong Kong	Tel. 852-313-0888
Hungary	Tel. 36-1-129-6050
Indonesia	Tel. 62-21-829-3108
Iran	Tel. 98-21-2271463
Italy	Tel. 39-2-67881
Kuwait	Tel. 965-481-2123
Malaysia	Tel. 60-3-755-0511/ 60-3-757-2312
Mexico, D.F.	Tel. 52-5-211-5030
Netherlands	Tel. 31-73-402-502
New Zealand	Tel. 64-9-570-2888
Norway	Tel. 47-22658400
Oman	Tel. 968-562677
Panama	Tel. 507-2-92955
Peru	Tel. 51-145-29470
Poland	Tel. 48-2630-6101
Portugal	Tel. 351-1-3961044
Puerto Rico	Tel. 1-809-750-4300
Qatar	Tel. 974-417575
Saudi Arabia	Tel. 966-2-647-0000
Singapore	Tel. 65-390-3688
South Africa	Tel. 27-11-313-1400
Spain	Tel. 34-3-425-9300
Sweden	Tel. 46-8-680-8238
Switzerland	Tel. 41-41-57-9090
Taiwan, R.O.C.	Tel. 886-2-377-6022
Thailand	Tel. 66-2-514-0501
U.A.E.	Tel. 971-4-282201
U.K	Tel. 44-1344-853870
U.S.A.	Tel. 1-201-348-7803
Venezuela	Tel. 58-2-941-7383

CATAGEZ1-E-E

30K096ZWSP-3 Printed in Japan